Mr. Rodney A. Boyd Trinity Industries, Inc. 2525 Stemmons Freeway Dallas, Texas 75207

Dear Mr. Boyd:

In his March 7 letter to Mr. Richard Powers of my staff, Mr. James Albritten requested formal Federal Highway Administration acceptance of several transition designs. These designs were developed for use at locations where your TRACC impact attenuator is connected to a concrete safety shape or to a w-beam or Thriebeam median barrier, thus making it susceptible to wrong-way hits. He requested further that my reply be addressed to you.

Mr. Dwight A. Horne's November 13, 1998 acceptance of the TRACC attenuator inferred acceptance of some conceptual transition designs, but requested detailed drawings for our files. Mr. Albritten's letter included copies of the TRACC Design Manual and the TRACC Installation and Repair Manual. The former document included detailed transition drawings.

Following staff review of your proposed transitions, several modifications were recommended for the connection to the New Jersey concrete shape. The final design, as shown in the enclosed drawing dated 05/10/02, is considered acceptable for use on the National Highway System and replaces the drawing previously included in the TRACC Design Manual. The w-beam and Thrie-beam transition designs are acceptable as currently shown in the TRACC Design Manual. The reduced post spacings shown for the metal-beam median barriers are consistent with several bridge rail transition designs that have been successfully crash tested to NCHRP Report 350 criteria. In lieu of the 10-gauge w-beam sections shown in your transition drawings, nested 12-gauge w-beam could be used, just as it is in all crashworthy bridge rail transition designs.

Sincerely yours,

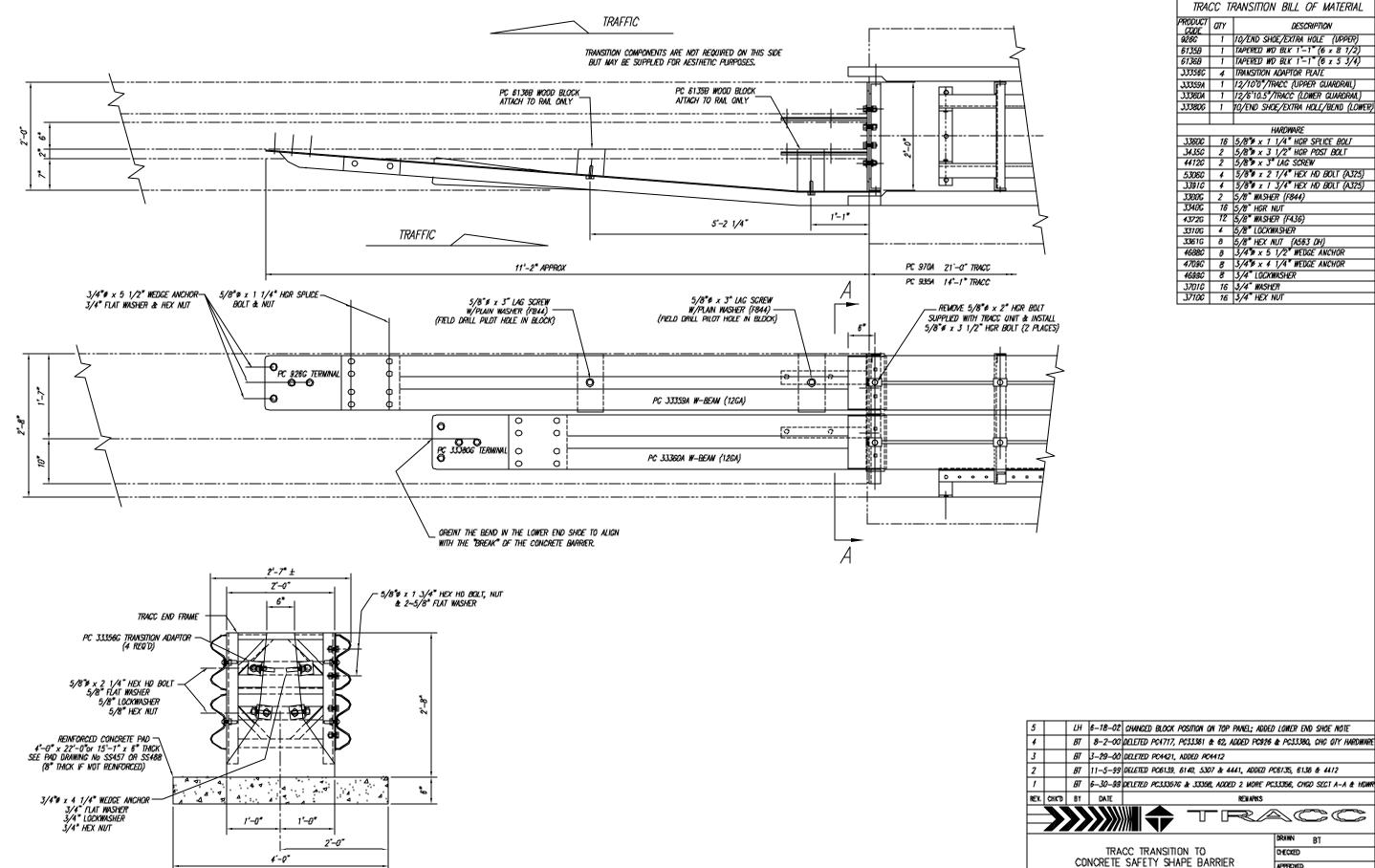
(original signed by Harry W. Taylor)

for

Carol H. Jacoby, P.E.

Director, Office of Safety Design

Enclosure



SECTION "A-A"

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TRINITY INDUSTRIES, INC.

PLAN, ELEVATION & SECTIONS

05/10/02 ENG. FILE # S\$461-01E

CHECKED

HIGHWAY SAFETY PRODUCTS 2525 STEMNONS FREEWAY, DALLAS, TX 752D7 SHT.Na. E1 OF 1 SS 461

ВТ

DESCRIPTION

HARDWARE